# FAT8xx Utility User Manual

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# Revision History

| Date Completed | Version | Description of Version |
|---|---|---|
| April 18, 2003 | V1.0 | Original document release |
| September 2, 2003 | V1.0 Rev. 1 | Add:<br>● Defines output key code of a certain key.<br>● Defines the keyboard layout. |
| Thursday, May 13, 2004 | V1.0 Rev. 2 | Add:<br>● New command for [Send Binary Code]. |
| Tuesday, January 18, 2005 | V1.0 Rev. 3 | Add:<br>● New command for [Set Display Mode]. |
| Wednesday, September 28, 2005 | V1.0 Rev. 8 | Add:<br>● New command for [I / O Control].<br>● Firmware upgrade |
| Monday, November 21, 2005 | V2.0 | Add.<br>● Implements EM commands<br>Modify.<br>● Interface of program main window |
| Tuesday, July 01, 2008 | V2.0 Rev. 6 | Add.<br>● Backlight function<br>Modify.<br>● Program changed from FAT800 Utility to |

| | | |
|---|---|---|
| | | FAT8xx Utility |

# Introduction

Thank you for purchasing FAT800 terminal. FAT8xx Utility program has been designed to work in conjunction with the FAT800 terminal equipped with keypad, reader and display. The FAT8xx Utility program provides an easy way to utilize the functions and get all the data inputted by user from the terminal.

# Loading the Program

- Insert the FAT8xx Utility Setup CD into the CD-ROM drive of your PC. The setup program begins automatically. There is no need to choose your CD-ROM drive from your on-screen settings, or to use the <RUN> prompt.
- A Setup Wizard will now guide you through the setup procedure. You will be prompted to accept a default path for the FAT8xx Utility program, which is “"C:\Program Files\FAT800_Utility”.
- You will now be asked to choose a name for your Start menu entry. You may type in your own name if you wish, otherwise click <OK> to accept.
- When the setup procedure is complete, remove the software CD-ROM disk from your CD-ROM drive and accept the prompt to *restart* your PC.
- From the [Start]/[Programs], select the [GIGA-TMS] (default folder), click [FAT8xx Utility].

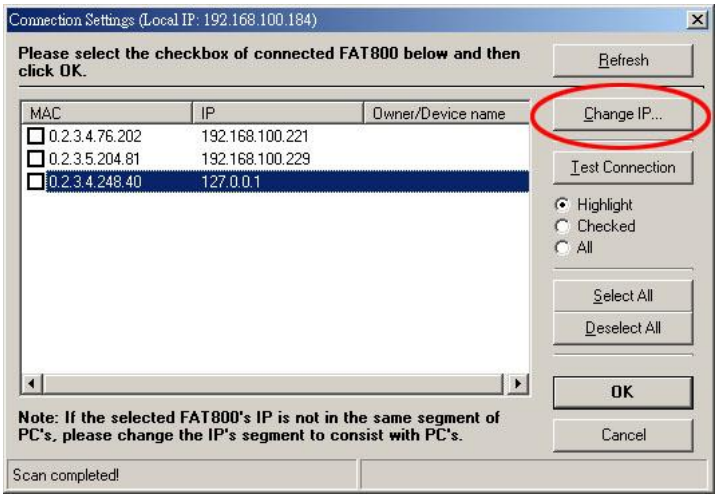
# Getting Started

**Hardware setup**

- Plugged in power adaptor
- Connect FAT800 to PC via communication cable. There are two kinds of cables that can be used by FAT800. The following two net-link methods point you which cable to be used.
    1. The communication goes through the hub: Using the WAS-1499 cable.
    2. Terminal is directly connected to PC: Using the WAS-1498 cable.

**Program Setup**

- Launch FAT8xx Utility program.
- For the first launch, a Broadcast window will pop up automatically.



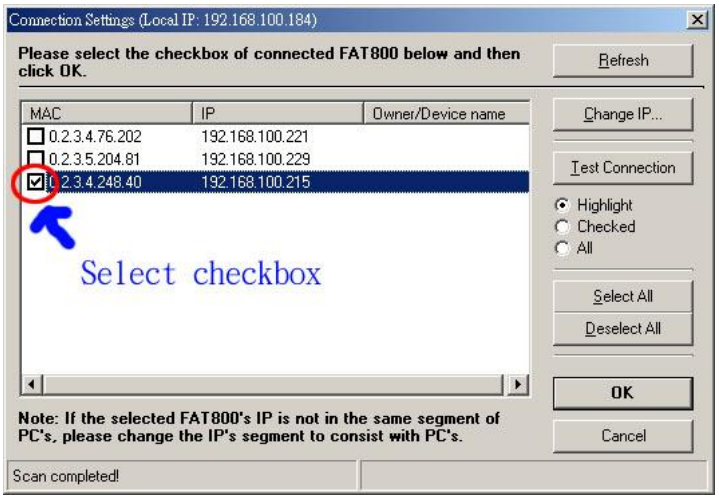

- In the Broadcast window, click the item of connected FAT800's IP (default value is 127.0.0.1)
- Click [Change IP]. In the [Change IP-address] window, modify the selected FAT800's IP. The IP subnet value should consist with PC's.

**Tip**: If the there are more than two terminals on the list and you are not sure which is the certain one to be modified, turning off the terminal and click [Refresh], you can find out the vanished one is just what you want. Then turning on the terminal and clicking [Refresh] again.

| 192. 168. | 100. | 49 |
|---|---|---|
| Network Address | Subnet Address | Hosts Address |

**Note**: An invalid IP will cause the PC and terminal can't communicate to each other. If you don't well know about the network settings, it is better to set the network and subnet address of terminal IP as same as the PC's (each IP is composed of network address, subnet address and hosts address). And the address that is going to be modified is the hosts address. For example, if the PC's IP is 192.168.100.49 (you can get the PC's IP from the caption of program windows), then the value of terminal IP should be 192.168.100.xxx, the xxx value is within 0~255 and must be unique in the LAN/network system.

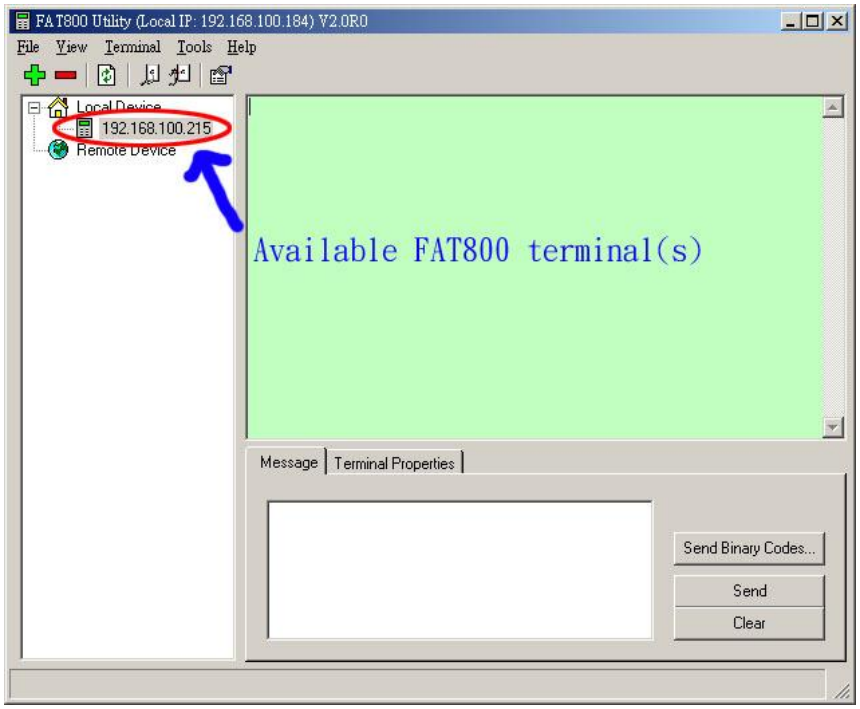
- Click [OK], the new IP will apply on the selected FAT800.
- In the Broadcast window, select the checkbox, and then click [OK].



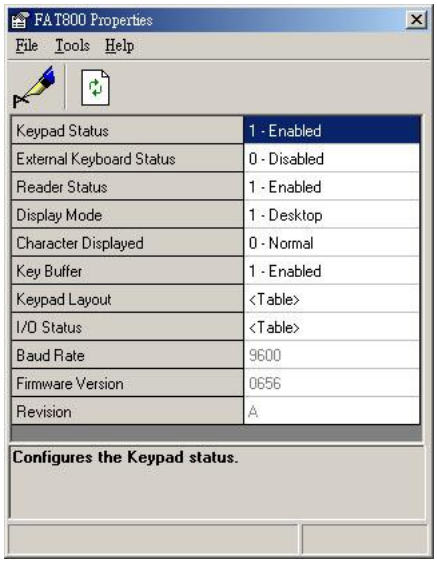

- If you have more than two FAT800 terminals connected to PC, re-select the checkboxes to include into the list.

# Configuring FAT800

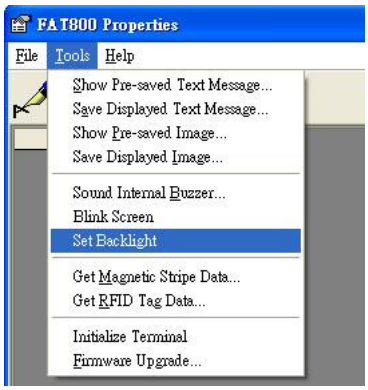
Before loading the main window, program will try to establish the connection between FAT800 and PC. No matter the result of establishing connection is succeeded or failed, the selected FAT800 IP will be listed on the tree view list of left side of main window.




Select an IP listed on the tree view, click button on the tool bar. A [FAT800 Properties] window will pop up. In this window, it allows you to configure all the parameters and functions of FAT800 in an easy way.




Each parameter can be modified just by double-clicking the item value. For example, to change the [Keypad Status], using the mouse to double-click the first row, second column cell, then an editing window will pop up. Select the value you want, then click [OK] to modify the [Keypad Status]. The functions are all located on the Tools menu.




Below is the list of parameters and functions that FAT800 provides.

# Parameters

| Name | Description |
|---|---|
| Keypad Status | Switch on/off the function of FAT800 keypad. |
| External Keypad Status | Switch on/off the function of external keypad. Only supported on FAT800A version terminal. |
| Reader Status | Switch on/off the function of internal Reader. The type of reader includes Magnetic Stripe reader, Barcode reader and RFID reader. |
| Display Mode | Configures the way that how to display the message on the screen. Wall-Mount or Desktop. |
| Character Displayed | Determines whether characters typed by a user or asterisk (*) character are displayed on the screen. |
| Key Buffer | Determines whether directly send out typed characters |

| | |
|---|---|
| | or kept in buffer until hitting Enter key. |
| Keyboard Layout | Programs keys of the Keypad. |
| I/O Status | Configure the I/Os of EM module. |
| Baud Rate | Displays the internal baud rate that FAT800 uses. |
| Firmware Version | Displays the version of a currently loaded firmware. |
| Revision | Displays the revision of a currently loaded firmware. |

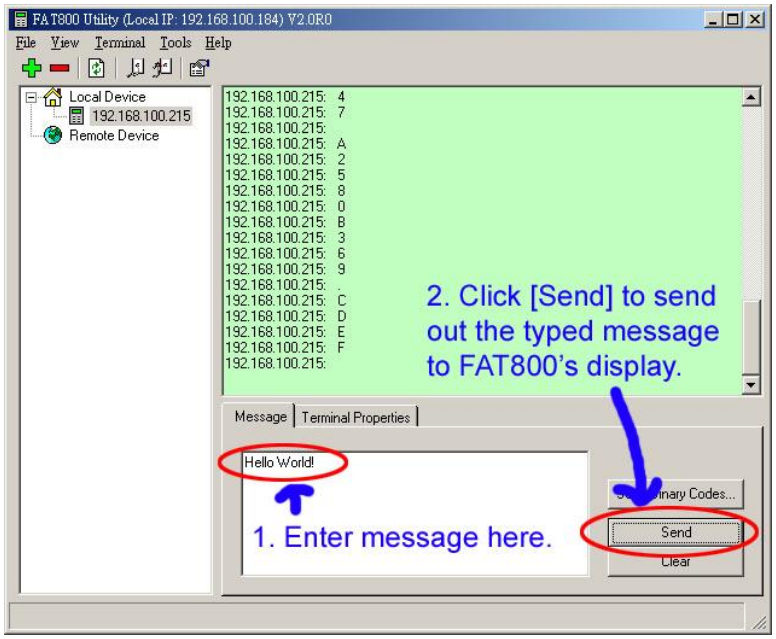
# Functions

| Name | Description |
|---|---|
| Show Pre-saved Text Message | There are 12 text messages and 6 images that are available to be stored in the memory of terminal. If you have some messages that are often shown on the display, it is a good way to pre-save these messages (please refer to [Save Displayed Text Message] and [Save Displayed Image] functions) and show them just sending a simple command. By using this function will be more speedy than sending the message (a string or graph image). |
| Save Displayed Text Message | Store the current displayed text message to the specified [Page Number]. |
| Show Pre-saved Image | Displays the specified page number of stored image. |
| Save Displayed Image | Store the current displayed image to the specified [Page Number]. |
| Sound Internal Speaker | Specifies the way of composing beeps to sound the buzzer. |
| Blink Screen | The terminal will blink the display every 1 ~ 2 second(s). The terminal will stop blinking if there is any interruption occurs. Like getting the data from PC, keypad pressed by user etc. |
| Set Backlight | Switch the backlight of display on or off. |
| Get Magnetic Stripe Data | Get the track data from magnetic card reader. |
| Get RFID Tag Data | Get the RFID Tag data from RFID reader. |
| Initialize Terminal | Restore default settings. |
| Firmware Upgrade | Upgrade firmware by specifying the firmware file. |

# Miscellaneous

## Send Message

If you want to send a message to specified FAT800 terminal, select the FAT800's IP in the tree view, then enter the message in text box and click [Send] button.




## Add Remote Device

For the local terminals, it's easy to get the connected FAT800's IP by using Broadcast (from [Tools] menu, click [Broadcasts]). But for the remote FAT800 (not in the same subnet as PC), it has to enter by manually.

To do this, click on the tool bar. Input the IP and select the location to [Remote Device, (located behind the routes)], then click [OK].

# Contact Us

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# Appendix A – Error Code List

| Error code | Description |
|---|---|
| 0 | SUCCESS |
| -1 | TIMEOUT |
| -2 | INVALID COMMAND |
| -3 | COMMAND EXECUTION FAILED |
| -4 | ACCESS DENIED |
| -5 | UKNOWN |
| -6 | NETWORK NOT INSTALLED |
| -101 | PORT NOT OPEN |
| -102 | TIMEOUT |
| -103 | INVALID DATA |
| -104 | UNKNOWN |
| -105 | INVALID PAGE MODE |
| -106 | INVALID PAGE NUMBER |
| -107 | GET NAK |
| -108 | INVALID LENGTH OF BEEP STRING |
| -109 | INVALID DATA OF BEEP STRING |
| -110 | PORT ALREADY OPEN |
| -111 | PORT ALREADY CLOSE |
| -112 | INVALID BAUDRATE |
| -113 | INVALID KEYPAD MODE |
| -114 | INVALID DISPLAY |
| -115 | INVALID MESSAGE LENGTH |

| | |
|---|---|
| -116 | INVALID X POS |
| -117 | INVALID Y POS |
| -118 | INVALID X LEN |
| -119 | INVALID Y LEN |
| -120 | DEVICE NOT FOUND |
| -121 | INVALID TRACK DATA |
| -122 | CARD READ |
| -123 | DEVICE TIMEOUT |
| -124 | BUSY |
| -125 | TCP NOT CONNECTED |
| -126 | IP DUPLICATED |
| -127 | DEVICE FULL |
| -128 | DEVICE CONNECT FAILED |
| -129 | IP NOT FOUND |
| -130 | EM100 CONNECT FAILED |
| -131 | CANNOT ESTABLISH TCPIP CONNECT |

# Appendix B – Development Note (FAT800_Ctrl.ocx)

If you are using FAT800_Ctrl.ocx to develop your own program, then it needs to change the ocx driver after installing the new FAT8xx Utility program. Because the driver name is changed, your source that implements the driver parts are needed to modified. The driver name is changed from FAT800_Ctrl.ocx to FAT8xx_Ctrl.ocx.
If you still want to keep the old driver, please uninstall the FAT8xx Utility program, and type below command to un-register the FAT8xx_Ctrl.ocx.
regsvr32/u FAT8xx_Ctrl.ocx
After the un-registering, installing the old FAT800 Utility program to re-install the old driver again.